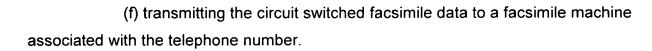
gateway

- 28. A method of providing facsimile service over a digital subscriber line, comprising:
- (a) dialing a telephone number associated with a facsimile machine connected to the digital subscriber line;
 - (b) setting up a circuit switched connection to a packet data network
- (c) sending a plurality of facsimile data to the packet data network gateway;
- (d) converting the plurality of facsimile data to a packet data protocol to form a plurality of packetized facsimile data; and
 - (e) routing the packetized facsimile data over the digital subscriber line.
 - 29. The method of claim 28, further comprising:
 - (f) receiving the packetized facsimile data at a local area network hub;
 - (g) routing the packetized facsimile data to the facsimile machine.
- 30. The method of claim 29, wherein (g) further comprises:

 (g1) formatting the packetized facsimile data in a local area network protocol.
- 31. The method of claim 28, wherein step (c) further includes the step of: (c1) emulating an analog facsimile data standard at the packet data network gateway.
- 32. The method of claim 29, wherein routing the packetized facsimile data to the facsimile machine comprises routing the packetized facsimile data via a digital facsimile machine.
 - 33. The method of claim 29, wherein (g) further comprises:
 - (g1) receiving the packetized facsimile data at a subscriber unit;
- (g2) converting the packetized facsimile data to the analog facsimile data by the subscriber unit.

- γ 34. A method of providing facsimile service over a digital subscriber line, comprising:
- (a) dialing a telephone number at a facsimile machine connected to the digital subscriber line;
- (b) transmitting a plurality of facsimile data over a local area network to a local area network hub;
- (c) formatting the plurality of facsimile data for transmission over the digital subscriber line and transmitting the formatted plurality of facsimile data over the digital subscriber line to a packet data network gateway.
- (d) establishing a packet data network telephone call, by the packet data network gateway, to a facsimile machine associated with the telephone number; and
- (f) transmitting the plurality of facsimile data over the packet data network telephone call to the facsimile machine associated with the telephone number.
 - § 35. The method of claim 34, wherein (a) further comprises:
 - (a1) receiving the telephone number at a subscriber unit;
 - (a2) emulating an analog telephone line by the subscriber unit;
 - (a3) receiving the plurality of facsimile data at the subscriber unit;
 - (a4) converting the plurality of facsimile data to a plurality of digital data.
- 36. A method of providing facsimile service over a digital subscriber line, comprising:
 - (a) dialing a telephone number at a facsimile machine connected to the digital subscriber line;
 - (b) transmitting a plurality of facsimile data over a local area network to a local area network hub;
 - (c) routing the plurality of facsimile data over the digital subscriber line to a packet data network gateway, _{LSP}
 - (d) routing the plurality of facsimile data to an interworking unit;
 - (e) converting the plurality of facsimile data to a circuit switched data protocol to form a circuit switched facsimile data; and



- 37. The method of claim 36, wherein (a) further comprises:
 - (a1) receiving the telephone number at a subscriber unit;
 - (a2) emulating an analog telephone line by the subscriber unit;
 - (a3) receiving the plurality of facsimile data at the subscriber unit;
 - (a4) converting the plurality of facsimile data to a plurality of digital data.
- (7. 38. A method of providing facsimile service over a digital subscriber line, comprising:
- (a) dialing a telephone number at a facsimile machine connected to the digital subscriber line;
- (b) transmitting a plurality of facsimile data over a packet data local area network to a packet data switch;
- (c) routing the plurality of facsimile data over the digital subscriber line to a network packet data switch using a virtual circuit;
- (d) transmitting the plurality of facsimile data over the virtual circuit to an interworking unit;
- (e) converting the plurality of facsimile data to a circuit switched data protocol to form a circuit switched facsimile data; and
- (f) transmitting the circuit switched facsimile data to a facsimile machine associated with the telephone number.
 - 39. The method of claim 38, wherein (c) further comprises:
- (c1) transmitting a plurality of other data over a second virtual circuit to the packet data switch.
 - 40. The method of claim 38, wherein (c) further comprises:
- (c1) transmitting a request for a switched virtual circuit to the network packet data switch;
 - (c2) receiving a response including a virtual channel identifier.

- 41. The method of claim 38, wherein (c) further comprises:
- (c1) determining a virtual path identifier and a virtual circuit identifier associated with the virtual circuit;
- 42. The method of claim 39, wherein the second virtual circuit and the virtual circuit share the bandwidth of the digital subscriber line.
- 43. The method of claim 39, wherein the virtual circuit is transmitted over a separate frequency band from the second virtual circuit.
- A method of providing facsimile service over a digital subscriber line, 44. 27. comprising:
 - (a) dialing a phone number of a facsimile machine connected to the digital subscriber line;
 - (b) routing the call to an interworking unit;
 - (c) transmitting a plurality of circuit switched facsimile data to the interworking unit;
 - (d) converting the plurality of circuit switched facsimile data to a plurality of packet data; and
 - (f) routing the packet data over a virtual circuit to the digital subscriber line.
 - 45. The method of claim 44, further comprising:
 - (g) routing the packet data over the digital subscriber line to an packet data switch);
 - (h) routing the packet data to the facsimile machine.
 - 46. The method of claim 45, wherein (h) further comprises:
 - (h1) receiving the packet data at a subscriber unit;
 - (h2) converting the packet data to a plurality of analog data;
 - (h3) transmitting the plurality of analog data to the facsimile machine.
 - 47. The method of claim 44, wherein (b) further comprises:
 - (b1) receiving the telephone number at a service switching point;
 - (b2) triggering on the telephone number;